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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/749,753 12/30/2003		12/30/2003	Yun Ling	42P17088	907,7		
8791	7590	07/26/2005		EXAN	EXAMINER		
BLAKELY	SOKOL	OFF TAYLOR &	NGUYEN	NGUYEN, KHIEM M			
12400 WILSH	IIRE BO	ULEVARD					
SEVENTH FI	LOOR		ART UNIT	PAPER NUMBER			
LOCANCEL	EC CA	00025 1020	2000				

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)	1				
Office Action O	10/749,75	3	LING ET AL.	v					
Office Action Summary		Examiner		Art Unit					
·		Khiem Ngu	•	2839					
The MAILING DATE of this openiod for Reply	communication app	pears on the	cover sheet with the	correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status	•								
1) Responsive to communication	on(s) filed on 05 M	<u>1ay 2</u> 005.							
2a)⊠ This action is FINAL .		action is no	on-final.						
3) Since this application is in co	·—								
Disposition of Claims									
4)	is/are withdraved. l. ed to.	wn from cor							
Application Papers									
9)☐ The specification is objected	to by the Examine	er.							
10)☐ The drawing(s) filed on	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that	* *								
Replacement drawing sheet(s) 11) The oath or declaration is ob	•	•	- · ·	•					
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a) All b) Some * c) No 1. Certified copies of the 2. Certified copies of the 3. Copies of the certified application from the Ir * See the attached detailed Off	ne of: priority document priority document copies of the prio iternational Burea	s have been s have been rity docume u (PCT Rule	n received. n received in Applica ents have been receive e 17.2(a)).	tion Noved in this National	Stage .				
Attachment(s) 1) Notice of References Cited (PTO-892)			4) Interview Summar	ry (PTO-413)					
Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (PTo Paper No(s)/Mail Date)	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date	O-152)				

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DETAILED ACTION

1. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kosmala (6,007,359) in view of Hayashi et al. (6,139,360).

Kosmala discloses an internal cable assembly comprising a shielded cable connector 30 located on one end of a cable assembly; edge fingers 22 located directly on a system board 14. Wherein, the cable connector connects to the edge fingers on the system board. It is noted that Kosmala lacks to show a cable assembly with cable connectors located on either ends of the cable assembly. Hayashi et al. discloses that it is known to provide cable assemblies 140 and 150 provided with cable connectors located on either ends of the cable assemblies. Therefore, it would have been obvious for one of ordinary skill to provide a cable assembly with cable connectors located on either ends of the cable assembly for Kosmala's cable assembly in view of the teachings of Hayashi et al. The above feature would allow Kosmala's cable assembly to be connectable to multiple circuit boards simultaneously.

For claims 2-3, either Kosmala or Hayashi et al. shows that it is known to use system boards. It would have been obvious to utilize the disclosed system boards either as a motherboard or a daughter card since such system boards are old and well known in the art.

For claim 4, the shielded cable connector of Kosmala includes spring members 32 and 50 stamped and formed on the cable connector.

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For claim 5, the edge fingers of Kosmala include ground connections 110 and contacts 20.

For claim 6, the ground connections 110 of Kosmala are electrically connected to the spring members 50 of the shielded cable connector. For claim 7, the ground connections 110 extend beyond the contacts 20 in the edge fingers (see figure 1 of Kosmala).

- 2. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the references as applied in claim 6 above, and further in view of Kendall et al. (4,736,275).
- 3. Kosmala in view of Hayashi et al. disclose an internal cable assembly comprising shielded cable connectors located on either ends of the cable assembly; edge fingers 22 located directly on a system board 14. Wherein, the cable connector connects to the edge fingers on the system board. For claim 8, it is noted that Kosmala lacks to show his ground connections 110 are connected to ground through vias located on the ground connections. Kendall discloses that it is known to connect his ground connections 99 to ground through vias 93 located on the ground connections.

 Therefore, it would have been obvious for one of ordinary skill in the art to connect the ground connections 110 of Kosmala to ground through vias located on the ground connections in view of the teachings of Kendall et al. The use of vias for connections to ground would provide a more reliable connection to the system board.
- 4. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over the references as applied in claim 1 above, and further in view of Ammon et al. (4,572,604).

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Kosmala in view of Hayashi et al. disclose an internal cable assembly comprising shielded cable connectors located on either ends of the cable assembly; edge fingers 22 located directly on a system board 14. Wherein, the cable connector connects to the edge fingers on the system board. Kosmala lacks a board header includes contact pads, which connect to the cable assembly and a solder tail, which connects the board header to the system board. Ammon et al. discloses a board header 16 includes contact pads 36 which can connect to a cable assembly (not shown, see abstract) and a solder tail 36, which connects the board header to the system board 10 (column 5, lines 15-22).

Therefore, it would have been obvious for one of ordinary skilled in the at to provide a board header includes contact pads which connect to the cable assembly and a solder tail which connects the board header to the system board for the cable assembly of Kosmala in view of the teachings of Ammon et al. The use of a board header would prevent damage to the system board's edge fingers, since the electrical connection of the system board's edge fingers with a mating connector is through the board header.

Response to Arguments

5. Applicant's arguments filed 5/5/05 have been fully considered but they are not persuasive. In response to applicant's arguments that the instant invention is different from the prior art rejection of Kosmala (6,007,359) in that Kosmala teaches a receptacle connector 12, which includes a cam wall 26 that lies directly over the contact pads 20, and which is used as a shield around the contact pads. However, it is submitted that

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the newly recited limitation of –non-shielded—edge fingers is unobvious over Kosmala for two reasons. Firstly, the term –non-shielded— recites only a negative limitation, which is not distinguished over the function and operation of Kosmala's connector device. Secondly, figure 2 of Kosmala shows that the tip portion 40 of the cam finger 26 does not completely extend over the entire edge fingers 16. Therefore, the tip portions of the edge fingers are readable as being non-shielded.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khiem Nguyen whose telephone number is 571 272-2096. The examiner can normally be reached on Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Khiem Nguyen Primary Examiner Art Unit 2839